

ABSTRACT OF THE DISCLOSURE

Method and apparatus for eliminating turbulence-induced noise in a pulsation-absorbing flexible hose, as in a hydraulic power steering system containing a pressure fluid-feeding pump and a steering gear operated by the pressure fluid discharged from the pump. The hose has a restrictor positioned in the hose bore, and the restrictor
5 has a flow-through bore of smaller diameter than that of the adjacent wall of the hose bore. The flow-through bore has a venturi tube cross section. The restrictor venturi inlet, throat and outlet are designed so as to efficiently conduct fluid therethrough by matching the characteristics of the fluid, the operational pressures, fluid density and other system parameters such that the venturi operates below the lower critical value of the Reynolds
10 number of fluid flow through the restrictor to thereby minimize or eliminate fluid turbulence in the restrictor outlet and/or immediately downstream thereof.